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subscribe grp-1
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unsubscribe grp-1
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RP ARCI CONTEST April, 1995

Callsign of Operator: VE6GK

band	QSOs	points	mults	

40	4	119	4	
20	9	273	6	

TOTAL	13	392	10	SCORE: 3,920

Comments: Sun Gods did not cooperate.....again.
It was snowing and ugly outside so I kept the radio on
and worked what I heard.....Not Much!

Antenna: 3 element 20 m monobander, 40 meter inverted vee. Both at 65 feet

Rig: Icom 751a (5 watts) 386sx with NA logging software and keyer/rig interface

```
*****
Dr. Rick Zabrodski BSc, MD, CCFP(E)      *                VE6GK
Email: zabrodsk@med.ucalgary.ca          * NorCal 519  ARCI 7099  GQRP 8329
Phone 403-271-5123 Fax 403-225-1276      * "Power is no subsitute for skill"
*****
```

From owner-qrp-1@netcom.com Wed Apr 12 01:13:46 1995
From: Byron8LCZ@aol.com
Date: Tue, 11 Apr 1995 18:02:58 -0400
Message-Id: <950411180257_79747326@aol.com>
Subject: ARCI SPRING QRP CW CONTEST

ARCI Spring QRP CW contest, another one bites the dust !

I'm glad this one is over, terrible solar and local conditions with light rain on Saturday and 2 inches of Snow on Sunday. Lots of atmospheric static, general band QRN, Amtor'ites, rag chewers and of course, everyone in the world tuning up on 7040. Heres the totals for WA8LCZ:

	QSO's	PTS	SPC	PWR
40m	66	285	24	5 WATTS
20m	16	71	10	
15m	3	12	2	
	===	===	===	
	85	368	x 36	x 7 = 92,736

Heard no activity on 10m (no big surprise there) and vy little on 80m, too noisy
20m was a big disappointment this time, colorado was weak, when i could hear it

Station: QRP Plus and GAP Titan vertical

The slow AGC delay hurt a little, especially when the other guy came back real fast. I missed the first few letters and had to ask for repeats. The single conversion receiver wasnt a problem in this contest except during the last few hours, when 40m heated up. At that point i could have used more signal rejection from outside the bandpass (2.4 khz). All in all, the Plus performed well. Even though its not a contest rig. The RIT is especially useful in a contest. I can plant my transmit freq, call CQ, switch to RIT and tune all over the band for activity. switch back to transceive and i'm ready to call CQ again, on the exact same freq. Having a S-meter is invaluable for handing out accurate signal reports. It does need more audio though (what

QRP rig doesnt ?)

Somehow my vertical went out of tune over the winter. My swr on 20m was 3:1, so i was losing 25% of my power before it reached the antenna. Thats 3.75 watts out on 20m. then theres the coax losses, 75 ft of 9913. another 15 % approx. brings me down to 3 watts out. Thats amazing, last week, i worked Portugal (3 watts both ways) and Italy on 3 watts during the near bottom of the solar cycle.

I didnt even consider running 1 watt this time. I wonder if any of those 1 watt stations did well in the contest. I only heard a few Michiganders this time, K8DD/M Hank, K8CV Walt and WB8E Walt. I wonder what happened to Buck N8CQA and Stan AC8W?

ARCI contacts include: Mike WA8MCQ and K3TKS Danny Gingell
Heard: Les Shattuck WN2V, in the last hour but only for a few minutes and heard Bruce Milne WB2QAP author of Logger.

INET'ers worked include: V01DRB Bob Gobrick, AF4K Brian Carling, N2CX Joe Everhart
N0OCT, N9DD, (What happened to K5F0, was he on another planet ?)

WWV: When i could hear WWV, the Solar flex was in the low 70's and the A index was 46 at 1500z on Sat and 24 at 1700z on Sun. Some of the poorest conditions, I've ever operated in.

Notables: Ernie W8MVN was only 589 but i worked him anyway (usually I hear Ernie almost constantly during a contest, not this time), worked NN1G Dave Benson, heard both AA4XX Paul and KA3WTF Fran but too weak to work

DX: HP1AC Cam fm Panama City

Summary:

My best run was 12 qso's per hour.

I made 85 contacts for 20 hrs of effort. strange thing..... contesting.
dont know why i do it.....

Next week is the Japan International DX contest on 10m, 15m and 20m. Need any more punishment ?

72, Byron WA8LCZ Detroit

From owner-qrp-1@netcom.com Wed Apr 12 01:04:17 1995
Date: Tue, 11 Apr 1995 17:12:22 -0500
From: adams@chuck.dallas.sgi.com (chuck adams)
Message-Id: <199504112212.RAA07995@chuck.dallas.sgi.com>
Subject: Re: Building code speed

Richard,

It's the only way to fly.

When I'm on the air, unless I have the mill (typewriter) in front of me which is rare now days, I just fill in the squares of the logbook (everyone should keep one of these even though it is no longer required by the FCC in the USofA) as you get the information. Jot down rig, wx, and anything you want to comment on for your turn at bat. It worries the newbie to do this, but you can catch on pretty fast.

I find that early in my career on 40M, that I wrote down every critter on paper. Got good at copying at 35-40wpm on paper. Have won several contests at hamfests at this speed back in the old days when they did this stuff. I used to keep the paperwork til it got too heavy to move around. Was neat to go back and look at every QSO and remember what was happening at the time. No more quoth the raven no more.....

Once you get to the point that you can relax the speed will come, it will come.

So, the point. Copying the head will open up lots of avenues for you.

- a. copying CW in the automobile
- b. soldering while listening on the air
- c. pushing papers around the desktop

dit dit

Chuck Adams K5FO CP-60 adams@sgi.com

From owner-qrp-1@netcom.com Wed Apr 12 21:54:42 1995

Date: Wed, 12 Apr 1995 19:55:47 -0400

From: John Spoonhower <jps@pas.rochester.edu>

Message-Id: <199504122355.TAA22065@alfalfa.pas.rochester.edu>

Subject: Re: CCW

Everyone,

I have to admit that the recent postings concerning CCW has sparked some interest for me. I notice that B. de Carle VE2IQ, had an article in last years QEX titled "A DSP Version of Coherent CW" (Feb 94 QEX, p. 25-30). I found the ref in this years handbook.....I'd like to see this article but alas, I cannot get to QEX at a local library. Would one of you kind QRPers make a copy of this text and mail it to me. I'd gladly provide a SASE if needed. Please send me e-mail if you can help. thanks
72, John, kc2du

From owner-qrp-1@netcom.com Thu Apr 13 04:01:22 1995
Date: Wed, 12 Apr 1995 23:55:08 +0059 (EDT)
From: howie cahn <wb2cpu@world.std.com>
Subject: Re: CCW
Message-Id: <Pine.3.89.9504122316.B7262-0100000@world.std.com>

On Wed, 12 Apr 1995, John Spoonhower wrote:

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> CCW has sparked some interest for me. I notice that B. de Carle
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> e-mail if you can help. thanks
> 72, John, kc2du

You might want to contact Pete Eaton, WB9FLW, the president of the St. Louis QRP Club. The group has been very actively trying to promote CCW. I think they have an information pack that contains article reprints. Pete's address is 'eatonp@eniac.ac.siu.edu'.

72/73... howie
wb2cpu@world.std.com

From owner-qrp-1@netcom.com Thu Apr 13 04:04:07 1995
Date: Wed, 12 Apr 1995 23:55:08 +0059 (EDT)
From: howie cahn <wb2cpu@world.std.com>
Subject: Re: CCW
Message-Id: <Pine.3.89.9504122316.B7262-0100000@world.std.com>

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72/73... howie
wb2cpu@world.std.com

From owner-qrp-l@netcom.com Wed Apr 12 21:53:00 1995
Subject: Re: Contest
From: brian.carling@acenet.com (Brian Carling)
Message-Id: <2a6.18577.500@acenet.com>
Date: Wed, 12 Apr 1995 06:51:00 -0500

>From: brian.carling@acenet.com

MESSAGE TO QRP-L:
VE4GH (76443.2243@compuserve.com) writes:

GH>Just curious...Who was the VE4 you managed to work...was he QRP ??

GH>Always good to know who your competition is.. <g>

GH>Greg (VE4GH)

Hi Greg - it was VE4AKI, and yes, he gave me # 8707 ARCI so I expect he was QRP also.

73 - Brian C. AF4K

~ SLMR 2.1a ~ I've told you a million times not to exaggerate!

From owner-qrp-l@netcom.com Wed Apr 12 07:07:19 1995
From: BCdlr@aol.com
Date: Tue, 11 Apr 1995 18:14:19 -0400
Message-Id: <950411181414_79760795@aol.com>
Subject: Dan's Small Parts

Okay, I posted a note over a week ago, and told you the phone was disconnected. Received in the mail this last Sat. note from Dan's and I quote: "Due to circumstances beyond my control, I am unable to fill your order at this time. I am returning your check or cash until I am able to complete your order. Dan's Small Parts & Kits"
It was postmarked from P.O Box 309, Green River, WY 82935.
I am posting this for those who may be concerned as I was. I regret that Dan

has to take this action. I am a small business owner also. But at the same time I can't afford to give my money away. I was pleased that Dan returned my check.

From owner-qrp-1@netcom.com Wed Apr 12 17:07:53 1995
Date: Wed, 12 Apr 1995 10:24:15 -0500 (CDT)
From: Kevin Anderson <anderson@ncrsun7.ncr.usace.army.mil>
Subject: Filters (was Re: QRP Contest)
Message-Id: <Pine.SUN.3.91.950412101058.1399D-1000000@ncrsun7>

> Yeah...it was pretty amusing to hear people all over top of
> each other. With QRP, a lot of times many people can think a
> frequency is clear, because they can not hear the other
> folks calling. But, if you are in the right place you can
> hear all of them making unreadable noise.

Filtering may have a role in this. Some of these people (getting to be more I suspect) have tight filtered rigs, and therefore can be nearly on top of each other and not hear that a QSO is right next door.

I've noticed this for example on my Heath HW-16 (okay, it's not QRP; I'm also a boatanchor enthusiast), which doesn't have the tightest of filtering. If I am just "up frequency" from someone, their tone is so low it is essentially unheard and I may not even be aware of them, whereas if I am "down frequency" from them, I can still hear the high pitch tone of their QSO. Put that in reverse -- who am I likely interfering or causing trouble to would be aware more that I'm nearby to QSY? The one just "below" me, as I would assume the reverse is true and that person would hear my code as high pitch.

This is assuming all are using the lower sideband for CW :-). I think I got this right (but may be wrong and in reverse).

Cheers/73. kevin, KB9IUA (whose is glad his inet connection is back, as lightning took it out Monday)

Kevin L. Anderson, CENCR-PD-W, U.S. Army Corps of Engineers
Rock Island District Office, Planning Div.-Waterway Systems
Rock Island, Illinois 61204-2004, USA phone:(309) 794-5586
e-mail: anderson@ncrsun1.ncr.usace.army.mil

Opinions expressed here are my own and do not represent the
U.S. Army Corps of Engineers or the Federal Government.

From owner-qrp-1@netcom.com Wed Apr 12 20:19:18 1995
From: N5EM@aol.com
Date: Wed, 12 Apr 1995 10:12:03 -0400
Message-Id: <950412101201_80539489@aol.com>
Subject: Re:freq counter probe

Rick,

Try taking a piece of small coax (RG-174 is fine) from the connector of your counter. At the probe end, take some small hook-up wire (I like small, 24 or 26 awg solid) and make a 2 or 3 turn loop about an inch in diameter. Connect to the coax, insulate the connections with tape or some heat shrink, then take some thread, or very small tie wraps and secure the loops together.

What you will have will look like a piece of coax with a round loop at the end, with several turns (sort of like a toroid). You should have no problem taking the loop and moving it around the hot area of your circuit to find a good place to pick up the signal you want to count.

Another way to do this (at one time you could actually buy this thing) is to make a small solenoid inductor, about 1/2 inch in diameter, and about 6 to 8 turns that will fit in some insulated plastic or similar tube. Connect the inductor to the RG-174 as before, then pot the whole thing inside the small plastic tube. Now, your probe looks like a cylinder, about an inch long and about 1/2 inch long, full of epoxy or (if you happen to have the worlds greatest junk box) actual potting compound.

Before you pot the thing, you might want to experiment with a variety of coil sizes (more or less turns) to find one that is particularly sensitive with your counter.

Give it a try and report your success!

72/73

Ed Manuel - N5EM
n5em@aol.com
Houston, Texas

QRP - Its a state of mind, not just a power level.

QRP ARCI #4914, G-QRP #1243, NORCAL #498, CQC #129

From owner-qrp-1@netcom.com Wed Apr 12 07:01:50 1995

Date: Tue, 11 Apr 1995 21:56:11 GMT
From: g3rjv@gqrp.demon.co.uk (Rev George Dobbs)
Message-Id: <4368@gqrp.demon.co.uk>
Subject: G3RJV-DAYTON KEYS

Since I sent the message about Eastern European Morse Keys for sale at Dayton, I have been bombarded with messages asking about - and for- them. I have yet to sort out and price the keys, they vary in condition and what I paid for them.

What I - may - do is list what I have, go first for Dayton sales, leave remainders with N8ET for other interested people. Did not realise what the interest would be - I will seek more of them this summer in my travels!

72/3 to all.....

--

George Dobbs G3RJV
G-QRP Club

"It is vain to do with more,
what can be done with less."

----- William of Occam (1290-1350)

From owner-qrp-l@netcom.com Wed Apr 12 13:32:20 1995
Message-Id: <199504121558.IAA04668@interval.interval.com>
Date: Wed, 12 Apr 1995 08:56:32 -0800
From: burdick@interval.com (Wayne Burdick)
Subject: Hands rigs

Thanks to all who replied to my request for info on the Hands rig. The best description came from Duncan Cadd, which I excerpted below. Also, Rev. Dobbs will have an example of the rig with him at Dayton.

I'll post some kind of summary of what we see at Dayton to the list.

>It's a nice little rig, available for all bands, but I've just seen in the
>latest SPRAT that he's got a new multiband version out! I don't have the
>details

>with me right now, but if you can send me your private email address, I'll
>post the details on to you tomorrow rather than dump it all on the list.

>

>

>The basic RTX rig (ssb + cw) consists of a number of boards, e.g. the IF strip,
>the RF rx/tx board, a +/- 30W linear amp, a pre-amp for the higher bands, a
>sidetone and changeover relay board, a vfo/pre-mix (he can do you a synth if
>you prefer and say so at time of order) an agc board, an o/p filter board and
>I may have forgotten something! All packed into a very nicely fabricated case
>which uses Hank (trademark!) rivet bushes. There is also a RTZ, same basic
>idea, but different innards with its own +/- 5-10W PA, plus as I say the new
>multi-bander. The really nice thing is you can choose whether you want to use

>a Showa 9MHz IF (four pole, I think) or a fancier 8pole 10.7MHz if, as the IF
>strip will take either and all you need to do is use appropriate crystals and
>tune the IFTs accordingly.

>

>Duncan G0UTY / ON9CHU G-QRP 8117

From owner-qrp-1@netcom.com Wed Apr 12 07:46:01 1995

From: Duncan Cadd <dcadd@luc.ac.be>

Message-Id: <9504120838.AA03822@alpha>

Subject: HANDS RTX etc

Date: Wed, 12 Apr 1995 10:38:21 +0200 (MET DST)

Greetings, Wayne, from a warm and sunny Diepenbeek in N.E. Belgium!

Re the HANDS ssb/cw transceivers, I built one for 21MHz last year . . . before finding out that the law in ON land forbids me to use it /P or /M!!!

It's a nice little rig, available for all bands, but I've just seen in the latest SPRAT that he's got a new multiband version out! I don't have the details with me right now, but if you can send me your private email address, I'll post the details on to you tomorrow rather than dump it all on the list.

The basic RTX rig (ssb + cw) consists of a number of boards, e.g. the IF strip, the RF rx/tx board, a +/- 30W linear amp, a pre-amp for the higher bands, a sidetone and changeover relay board, a vfo/pre-mix (he can do you a synth if you prefer and say so at time of order) an agc board, an o/p filter board and I may have forgotten something! All packed into a very nicely fabricated case which uses Hank (trademark!) rivet bushes. There is also a RTZ, same basic idea, but different innards with its own +/- 5-10W PA, plus as I say the new multi-bander. The really nice thing is you can choose whether you want to use a Showa 9MHz IF (four pole, I think) or a fancier 8pole 10.7MHz if, as the IF strip will take either and all you need to do is use appropriate crystals and tune the IFTs accordingly.

I'll see what I can dig up for you - all the above is from memory!

73,

Duncan G0UTY / ON9CHU G-QRP 8117

From owner-qrp-l@netcom.com Wed Apr 12 15:04:02 1995
From: David Johnson <djohnson@acpub.duke.edu>
Message-Id: <199504121701.NAA06267@bio3.acpub.duke.edu>
Subject: help with frq mod to swr analyzer
Date: Wed, 12 Apr 1995 13:01:22 -0400 (EDT)

Hi gang! I still haven't found any clues to hunting down the mod I saw mentioned somewhere for making the MFJ SWR Analyzers read down to (about) 100 kHz. Any clues appreciated! Please, can someone help with this?

By the way, I am using the Autek RF-1 for field use in adjusting SWR of antennas for qrp portable, but it's not quite as easy to use as the MFJ. (I think it's the 209 I have?)

72,

Dave

--

David W. Johnson	Power is no substitute for skill
Amateur Extra WA4NID	QRP ARCI 6546
email: djohnson@acpub.duke.edu	G-QRP 4864
packet WA4NID@KB4WGA.NC.USA.NA	NorCal 355

From owner-qrp-l@netcom.com Thu Apr 13 01:18:55 1995
Message-Id: <11APR95.23831447.0355.MUSIC@MARISTB.MARIST.EDU>
Date: Tue, 11 Apr 95 22:03:58 EDT
From: "Bowes, Fr. Bruce" <GBB1@MARISTB.MARIST.EDU>
Subject: HW-8 output

Can anybody tell me how many watts the HW-8 produces. I would be also interested in any comments about the rig.

Thanks

Fr Bowes

From owner-qrp-l@netcom.com Thu Apr 13 04:14:02 1995
Message-Id: <2f8cba1e.pandora@pandora.lugs.po.my>
Date: Thu, 13 Apr 1995 13:43:56 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.po.my>
Subject: Incredible!

Yo!

This is a great feeling. I heard the FOX (albeit QRO and after the fox hunt! :-). And managed to work 2 QRL-L buddies in a span of 5 minutes. And after you guys called, I heard JH1ROJ, also from Internet. This is so weird, but exhilarating. It was fun working you guys though. Really, we must do this

more often but under prevailing conditions I don't think the QRP signal will get through though I've worked call area 6 many times with my ARK 20 before. Now let me sober down before I write even more stuffs! Thanks Stan and Erics, you really made my day.

For the others, I just got back for lunch and decided to look at 14025 to see if BS7H was there and since there was nothing there I decided to call CQ for fun on 14021, got me a WA6, and then it happened. N6ULU, a very distinctive call I've seen so many times on the list, and as if that weren't enough, it was followed closely by WA6HHQ. For a moment I had thought it was their QRP signal I was hearing but it wasn't. Under these conditions things sounded real weak. Gave a 339 and 449 respectively.

BTW, Stan and Eric, I didn't copy your power? What was it? I was, running 100W into my hambrew dipole (just some wires strung up on the roof). Sorry guys if this is not QRP but the path is there! It can be done.

73 de 9V1ZV Daniel (very happyeeeeeeeeeeeeeeee :-)

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.po.my |
| 9V1ZV      | daniel.wee@f516.n600.z6.fidonet.org |
| UUCP1.12j  | Packet: 9V1ZV @ 9V1VS.SGP.AS -- |
+-----+-----+
```

From owner-qrp-l@netcom.com Wed Apr 12 18:49:30 1995
Message-Id: <n1414418567.90951@msmailgw1.arlut.utexas.edu>
Date: 12 Apr 1995 16:24:43 -0600
From: "rohre" <rohre@arlut.utexas.edu>
Subject: MFJ Ant. Analyzer as Freq. Counter

Hi Rick and the group,

We bought a MFJ for a couple of the clubs down here. Like similar simple frequency counters, a 1 meg ohm impedance times 1 attenuation Scope probe, or a switchable scope probe of X1 or X10, for the frequency range you want can be used to decouple the counter from the circuit you are measuring. I, too, am not sure of the absolute lower limit, and the paperwork is at home; but even if you find a circuit that is not driving the counter with the above probe, you might get away with a simple resistor as a probe, with the idea being to keep the path to the counter input higher impedance than the circuit you are measuring, so as not to "pull" the frequency if it was an oscillator, or "load" the output down to the point oscillation ceased. Some test points in RF gear I have seen are simply a 1000 ohm resistor in series to the transistor circuit to be measured, up to several MHz. Off the top of my head I believe a review of the MFJ said it had a 3mw signal generator inside, so the counter is able to go pretty low on the internal hookup. Don't know if the external BNC has a resistor in series or not but would expect it to be protected that way. We did as a test measure some

antennas using either connector and saw little or no difference with an antenna.

Now at VHF say, and if you were using those MAR-1 amplifier IC's that look like a transistor, remember they are often 50 ohm impedance in and out, and you might use less probe resistance to isolate the counter.

The idea is the same as using a high enough input impedance DC meter to not change a voltage you are measuring. I do know, that the MFJ is so sensitive that when I brought it in to work, and connected it to an 80M Delta we have out back for an ionospheric sounder project. It picked up the AM radio station that is 6 to 10 blocks away, and would not measure the antenna! Thus, if ever you are in a high RF field like at Field Day, do not try to measure an antenna while someone nearby is transmitting on another antenna! (That also locked it up last Field Day!)

It is a great and versatile instrument. Although ours are the models that only gives total impedance, they compare very favorably with the Autek RF-1 that is my personal HF Antenna Analyzer; they agreed on each HF antenna I have used both on, and the Autek has some 1% calibration resistors for checking as well.
--72, Stuart K5KVH

From owner-qrp-l@netcom.com Wed Apr 12 01:49:54 1995
Date: Tue, 11 Apr 1995 21:05:32 -0600 (MDT)
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>
Subject: mfj swr freq counter question
Message-Id: <Pine.SUN.3.91.950411205515.4159E-100000@ume>

I have recently acquired an mfj swr analyzer with built in freq counter. Works well, price was right etc etc.
Anyway, I was wondering if anybody could tell me how "sensitive" (not sure this is the right word) this counter is. It has a separate, frequency input. It measures the output of my grid dip meter just fine. My question: what kind of probe is needed to measure oscillator frequencies on my HW9 or Sierra? (I am sure this is a newbie question but I have tried to look this up in my modest reference library and have found virtually zip!) Thanks for your help guys.

Dr. Rick Zabrodski BSc, MD, CCFP(E) * VE6GK
Email: zabrodsk@med.ucalgary.ca * NorCal 519 ARCI 7099 GQRP 8329
Phone 403-271-5123 Fax 403-225-1276 * "Power is no substitute for skill"

From owner-qrp-l@netcom.com Wed Apr 12 09:49:30 1995
From: JEVERHART@cayman.VF.MMC.COM
Date: Wed, 12 Apr 1995 8:31:23 -0400 (EDT)
Message-Id: <950412083123.2383b630@carib.vf.mmc.com>

Subject: RE: mfj swr freq counter question

Dr Rick, you queried, on part:

> Anyway, I was wondering if anybody could tell me how "sensitive" (not
> sure this is the right word) this counter is. It has a separate,
> frequency in input. It measures the output of my grid dip meter just
> fine. My question: what kind of probe is needed to measure oscillator
> frequencies on my HW9 or Sierra? (I am sure this is a newbie question but I
> have tried to look this up in my modest reference library and have found
> virtually zip!) Thanks for your help guys.

I did a little research in writing an article for QQ about other uses for the MFJ-249. The folks at MFJ told me that the minimum signal needed for reliable operation of the counter was 600 mv rms and the maximum safe input was not specified, but 5 v rms shouldn't hurt it. They wouldn't tell me their circuitry (proprietary) but that the input was "high impedance" to an FET. I've independently confirmed that I generally need at least 500 mv rms for the one I use.

Unfortunately this may not be sensitive enough for your use. Most counters require only one tenth as much signal. You might need an amplifier of some sort to use it with your rigs. My 1988 Radio Amateur's Handbook shows a "600 MHz Frequency Counter" on Page 25-19 with a low frequency input circuit that might be usable. It uses an MPF102 FET for high input impedance and two 2N3563 amplifiers. You might also find a handy circuit in some of the "digital dial" circuits that have been published in the last ten years or so.

Good luck and 72/73,

Joe E. N2CX

From owner-qrp-l@netcom.com Wed Apr 12 21:38:04 1995
Message-Id: <9504122112.AA03923@garnet.inel.gov>
Date: Wed, 12 Apr 1995 14:13:20 -0600
From: LVE1@inel.gov (Larry East)
Subject: Need an Idaho contact?

Well, I am now back on the air after a 3.5 month bout with home repairs...
If anyone need an Idaho contact, send me e-mail to setup a schedule.

"Any opinions expressed herein are my own and probably do
not agree with those of my employer, the U.S. Government
or my spouse"

--... --

Larry V. East (W1HUE)
Idaho Falls, ID
e-mail: LVE1@inel.gov

Packet: W1HUE@WT7B.ID.USA.NOAM
work: (208) 533-4005 home: (208) 529-2162

From owner-qrp-1@netcom.com Wed Apr 12 17:02:24 1995
Message-Id: <9504121848.AA01245@garnet.inel.gov>
Date: Wed, 12 Apr 1995 11:49:26 -0600
From: LVE1@inel.gov (Larry East)
Subject: NorCal 40 on 30M?

Has anyone attempted to modify a NorCal 40 / 40a for operation on 30M?
Just wondering...

"Any opinions expressed herein are my own and probably do
not agree with those of my employer, the U.S. Government
or my spouse"

--... ..--

Larry V. East (W1HUE)
Idaho Falls, ID
e-mail: LVE1@inel.gov
Packet: W1HUE@WT7B.ID.USA.NOAM
work: (208) 533-4005 home: (208) 529-2162

From owner-qrp-1@netcom.com Thu Apr 13 04:24:15 1995
Message-Id: <199504111720.KAA20883@interval.interval.com>
Date: Tue, 11 Apr 1995 10:18:56 -0800
From: burdick@interval.com (Wayne Burdick)
Subject: NorCal dinner; special guest

Sorry for the short notice, but Dave Benson is in town and he and I will
meet at Two Guys from Italy (Mountain View) for dinner tonight at around
6:30 or 7:00. Dave (NN1G) is the owner/founder of Small Wonders Labs,
designer of the NN1G 20M transceiver, QRP Club of New England's 40-40 and
its derivatives, etc.

Send me mail if you think you'll be coming to dinner so I can get a table
of the appropriate size reserved.

I didn't know about this until just now, so I don't have a NorCal 40 with
me. If someone can grab one enroute, please do. I'd like to have one
there to start a discussion of what tweaks to make for the next revision.

Thanks,
Wayne
N6KR

From owner-qrp-l@netcom.com Wed Apr 12 02:02:35 1995
Date: Tue, 11 Apr 1995 17:30:29 -0700
Message-Id: <199504120030.RAA28240@mailhost.primenet.com>
From: aa7qy@PrimeNet.Com (Roger Hightower)
Subject: Ooops! Re: HW-9

I think I goofed it up. Here is the text of the HW-9 posting:

Msg relayed from packet system:

>From: KA2DQA@WB2VPH.#WNY.NY.USA.NOAM
To: SALE@ALLUSA

Hi everybody. My name is Lou. Thanks for reading this message.

I have a Heath HW-9 with the matching Heath power supply for sale. The equipment is in good clean shape, and I have the docs for it. It has the WARC bandpack. The first \$250 takes it.

If you are interested, call me at (716) 271-3818, or you can reach me at the WB2VPH BBS.

73, de Lou KA2DQA

Sri abt the previous posting..Roger, AA7QY.
aa7qy@primenet.com rhigh@aztec.asu.edu Ham Radio: AA7QY@KC7Y.AZ.USA.NA

From owner-qrp-l@netcom.com Wed Apr 12 22:21:05 1995
Subject: Re QRP ARCI contest
From: brian.carling@acenet.com (Brian Carling)
Message-Id: <2a6.18580.500@acenet.com>
Date: Wed, 12 Apr 1995 06:52:00 -0500

>From: brian.carling@acenet.com

MESSAGE TO QRP-L:

Mike.Czuhajewski@hambbs.wb3ffv.ampr.org writes:

MC>This time I did remember to check 7110 KHz, and I did pick up a pair of
MC>contacts there, although other times I checked it there was nothing.
MC>Must be terribly frustrating for those who don't have licenses to go
MC>below 7100, to have all the activity down on 7040. Don't forget, some
MC>QRPers are up there on the "other QRP frequency". 73 and Queue Our Pea

MC>DE WA8MCQ

You are indeed a patient man!

~ SLMR 2.1a ~ I've told you a million times not to exaggerate!

From owner-qrp-l@netcom.com Wed Apr 12 23:58:36 1995

From: Johnson Russ <JohnsonR@ind2.indy.tce.com>

Subject: QRP CW Mobile

Date: Wed, 12 Apr 95 13:55:00 PDT

Message-Id: <2F8C3E1C@MSMAIL.INDY.TCE.COM>

How many Mobile QRPers are out there? I know Smitty is and have seen a few other mentions of mobile operation. I have been running CW mobile since September of last year and started out with 50 watts but after discovering the qrp-l list reduced my power to 5 watts. It's only slightly more difficult to make contacts with 5 watts. My mobile setup is:

Kenwood TS-50 (now in the shop to be repaired)

MFJ 9020 (taking up the slack until the TS-50 returns)

Hustler antenna with radiators for 40 and 20 meters.

Time Wave DSP-9

I would like to hear about other mobile setups, possible multi band antennas, antenna matchers (anyone use the SGC SG-230 ?) etc.

So far I have worked 38 states and 10 countries Mobile CW and 15 states and 5 countries QRP Mobile CW.

Russ N9RJ

Johnsonr@indy.tce.com

From owner-qrp-l@netcom.com Wed Apr 12 07:28:44 1995

Message-Id: <n1414513714.72609@msmailgw1.arlut.utexas.edu>

Date: 11 Apr 1995 13:58:41 -0600

From: "rohre" <rohre@arlut.utexas.edu>

Subject: Sloper plus a screen reflector

Cameron and the group,

Although I don't at the moment remember this from QST, there was something in one of the magazines about using a reflective screen behind a dipole to make a directive antenna in the form of a horizontal corner reflector for listening for RF of comet impacts on Jupiter. Anyway, such an antenna reflector could be made a folded corner reflector or a flat screen reflector; but would not give 3 S units gain on a *calibrated* receiver S meter! It would be more like an S unit, or the same effect as any reflector placed behind a driven element. See

the ARRL Handbook or Antenna Book on plane reflectors and corner reflectors for VHF/UHF; they can be scaled to the HF bands. A MUCH better conductive material than chicken wire would be copper window screen; however, the chicken wire might be cheap. What you really need for good lasting effect is a screen that has good connections at crossovers, and perhaps a better longer lasting screen would be the gavanized type that has soldered or welded wire crossovers at the corners of little squares. Since the reflectivity only requires the openings to be small in terms of a wavelength; the really patient experimenter could perhaps solder up his own "screen" of copper wires placed at right angles to each other.

There is a type of microwave reflector that achieves the gain and directivity of a parabola using a flat reflector. The reflector is actually of insulating crossed strings with crossed dipoles at the junctions being the only conductive parts. By controlling the length of the dipoles, the reflection is "steered" into a parabolic pattern.

Although that crossed dipoles reflector is not practical for HF, it leads me to think of copper track tapes, and copper adhesive backing gasketing tapes from 3M Corp. These could be slit into more narrow rolls, and used to make a crossed array of conductors, perhaps on some netting like volley ball nets, and several of these, (or maybe one would be adequate?) could be placed behind the horizontal dipole. By varying the elevation of the reflector reference the dipole, we could perhaps steer the directivity for the optimum skywave takeoff and reception angle for DX. If that concept is clear enough, could someone model this with an antenna software program?

For the experimentalist, one could use copper window screen and a two meter dipole and vary the height of the screen behind the dipole and make field strength measurements a couple of wavelengths or more in front of the dipole and report on the results, with and without a screen, and at different angles and heights. The reflector would have to be 5 % longer than the dipole as a minimum, and perhaps some fraction of a wavelength high to be effective. Be guided by the dimensions said to be effective for screens on the corner or planar antennas in the handbooks for many years, and also used for UHF TV for many years. Scale up for the band of interest. This is another one of those neat ideas I wish I had the time now to pursue! If anyone can I would be happy to dig out references to point someone in the right direction.

73, Stuart K5KVH

From owner-qrp-l@netcom.com Wed Apr 12 11:32:42 1995
Message-Id: <9504121344.AA14598@us4rnc.pko.dec.com>
Date: Wed, 12 Apr 95 09:44:01 EDT
From: "N100Q Tom R. @ MR01 12-Apr-1995 0932" <randolph@est.enet.dec.com>
Subject: soldering irons...

Hi gang,
Anyone else have trouble getting decent tips for Weller 25W soldering irons?
It seems they get pitted after 2-3 hrs of use, and the pit grows and grows

until it consumes the entire tip!

Yesterday, on a tip from QST, I hit the hardware store and picked up some threaded brass rod (10-24 thd), broke out the bench grinder, and made my own tip. It worked great! It's a little more trouble to keep it tinned, but no big deal. The big feature is shaping it exactly how you want it... I gave it a nice tapered tip, and now I can do amazingly fine work with it.

BTW, saw some talk of trimmer caps... Jameco has had their ceramic 5mm surface mount trimmers on sale for 19 cents each for a little while. Don't let the surface mount scare you - these aren't that tiny that you can't work with 'em, and the price is cheaper than flea markets!

-Tom R. N100Q randolph@est.enet.dec.com

From owner-qrp-l@netcom.com Wed Apr 12 21:29:46 1995
Subject: Re: Spring QSO Party, Lou
From: brian.carling@acenet.com (Brian Carling)
Message-Id: <2a6.18576.500@acenet.com>
Date: Wed, 12 Apr 1995 06:51:00 -0500

>From: brian.carling@acenet.com

MESSAGE TO QRP-L:
(adams@chuck.dallas.sgi.com) K5FO writes:

Spring QSO Party, Lousy Propagation

CA>I worked Sat and Sunday with a group in Dallas on a shelter for
CA>the homeless, but I did fire up the rig around 9pm (CST) for
CA>an hour and a half and worked only 3 stations and a fourth
CA>could hear me, got the call, but no complete exchange.

CA>dit dit

CA>Chuck Adams K5FO CP-60 adams@sgi.com

So THAT's where you were! No wonder we missed you. I had a pipeline to TX and CO on 20 meters, but you missed it!

BTW - also did not hear MS or LA stations on from 5 land, very disappointing! Also no QRP from Nebraska. What's with those farmers?

72 de AF4K

~ SLMR 2.1a ~ I've told you a million times not to exaggerate!

From owner-qrp-l@netcom.com Thu Apr 13 01:27:32 1995
From: Tim Kosch <takosch@norden1.com>
Message-Id: <199504130058.UAA20120@norden1.com>
Subject: subscribe
Date: Wed, 12 Apr 1995 20:58:20 -0400 (EDT)

subscribe

From owner-qrp-l@netcom.com Thu Apr 13 00:49:16 1995
From: Tim Kosch <takosch@norden1.com>
Message-Id: <199504130059.UAA20126@norden1.com>
Subject: subscribe.
Date: Wed, 12 Apr 1995 20:58:47 -0400 (EDT)

subscribe

From owner-qrp-l@netcom.com Thu Apr 13 02:40:39 1995
Date: Tue, 11 Apr 1995 13:58:45 -0500
From: "Thomas K. DeWitt" <dewitt@arlut.utexas.edu>
Message-Id: <199504111858.NAA04342@hardhead.arlut.utexas.edu>
Subject: Unsubscribe (too much JUNK!!)

unsubscribe qrp-l

--

Tom DeWitt	Internet:	dewitt@arlut.utexas.edu
Applied Research Labs	Landline:	512-835-3835
University of Texas	Fax:	512-835-3100

From owner-qrp-l@netcom.com Wed Apr 12 17:05:17 1995
From: PDouglas12@aol.com
Date: Wed, 12 Apr 1995 13:51:02 -0400
Message-Id: <950412134958_80753228@aol.com>
Subject: Re: What is Ham Radio and QRP?

Dear BC,

You posted a rather bitter message about the QRP list and your failure to make any contacts operating crystal controlled QRP on 7010, presumably during the QRCI Spring QSO Party. I am copying in the QRP list (at some risk that my opinionated message which follows will divert the incoming flames to me!) because there may be others who be in the same position as you.

This is not a flame. You do need some assistance, if you aren't making contacts. You should have posted that part of your message sooner, as there are a lot of experienced hams on the list who could help you. 'Frinstance,

I've been teaching ham radio in our local high school adult ed program for more than 15 years--all you had to do was ask. And there are guys on this list who make me look like a novice.

1. You need an Elmer (an experienced ham to get you going). If there aren't any volunteers on this list, call the ARRL and ask their club support dept for a recommendation. Someone has to pay a house call on you to see that your antenna/feedline/rig system is working. If you live on Long Island, I'll do it.

2. You have to make contacts to maintain interest in HF and to increase your code skills and technical skills so you will upgrade. If you continue frustrated, you won't just drop the list, you'll drop HF operating and maybe drop radio. That is undesirable for you and the rest of us.

3. QRP is a lously idea for a tech+ or novice to start out with. You ought to start out with a QRO rig, as making contacts is very important (see #2 above) , and a novice/tech won't make any without a proper antenna and some power. I never recommend QRP to my classes for starting out--I believe strongly QRP is too challenging for beginners and will invariably lead to frustration. Go buy yourself an old Heath pair, or Drake twins, or borrow one from a fellow club member (see#4) to get yourself some chance of making contacts, which is the idea of the exercise. BC, if you are a kid, show this to your parents and bully them into putting up the \$200-300 you need for a decent CW rig. (GET EXPERIENCED HELP BEFORE YOU BUY USED STUFF, THOUGH.)

Short of college tuition, ham radio is the best educational investment they can make. If your folks (or you) really can't afford to buy something now, then you should join a local club and make your needs known. You will be pleasantly surprised.

4. You're right that the QRP list will not be very meaningful for you right now, as your needs are more basic. You should find a club with locals to assist. You'll be amazed at the help you can get, including loans of CW equipment and antenna hanging help.

5. Aside from your noting that you just got your Tech+ in February, how do I know you are a beginner? Because no experienced QRPer would spend the weekend with a one crystal QRP rig on the novice 40m band in the middle of a sunspot low and geomagnetic storm sending out CQ's, even in a contest. Of course no one answered you. Hardly anyone ever answers my QRP CQ calls either, and I know my antenna is right, and I do get out. Experienced QRPers know that answering other stations calling CQ on their precise frequency (zero beat) is the way to make contacts with low power. Sure, I call CQ once in a while, but I know pouncing on someone else's CQ is more effective maybe by a 20 to one margin. If you insist on using a crystal without even VX0 , then you might try leaving the receiver on the zero beat freq and wait for someone to call CQ on freq (may take months with the propagation these days!) and call him. Leave the receiver on while you do something else (read 73 or QST back issues, maybe) and keep an ear cocked. You do know how to zero beat, right? And what kind of receiver are you using anyway?

Didn't you notice that the bands were almost dead? Anyway, the fellas aren't kidding that experience and skill are required to make QRP contacts, and --no offense--you don't have it yet.

6. Last month one of my recent novice/tech alums called to say he wasn't making any contacts with his new/old Heath CW twins. When I visited, it turned out he was using 20 year old coax with water damage. It would pass received sigs, but 50 watts shorted it out on transmit. New coax and an hour later had me in QSO with Italy on his rig. So I left him knowing he could make contacts. He's ready to upgrade, four weeks later. I do not tell this story to buttress my ego, but you need the same kind of assistance. Let me know if I can help.

7. Finally, since you did build that little rig, you may not be a rank beginner. In that case, you need to read more about QRP operating technique. Lots of good books and Mag articles out there.

Preston WJ2V

From owner-qrp-l@netcom.com Thu Apr 13 02:37:40 1995
From: BCdlr@aol.com
Date: Tue, 11 Apr 1995 18:14:28 -0400
Message-Id: <950411181426_79761052@aol.com>
Subject: What is Ham Radio and QRP?

This is a hypothetical question and can't really be answered. I sought out QRP because I thought everybody here would be more interested in the "furtherance of the radio art" than the typical appliance operators, well actually glorified CB operators, but that's okay its a free world. After this weekend, I've changed my mind a little. A lot of you guys are really smart, have a good time, and really do further the art. But there is a great contingent, (at least on this list), who need to get a life. I sought out QRP because I cannot afford to spend a great deal on my hobby but I still want to get a great deal of satisfaction out of it, and hopefully with some people who think likewise. I am going to look somewhere other than this list. Oh by the way. I've built a little transmitter, and I have one crystal, 7.110. I've called CQ at my slow speed at all times and all days. All I can hear is speedsters answering each other. I've been a tech+ since Feb. 27th and haven't made a single QSO. Now I am not going to blame that all on you guys, but be careful to paint the rosey pictures of yourselves. Farewell, I'll find my QRP info somewhere other than this list. I can't afford to pay for all the flames! (Took 18 mins to download yesterdays mail - actually all weekend, had my gall bladder ripped out!, and I don't think there were 3 good messages, 12 minutes for today's and 2 good messages) Don't all of you take this personal, there are a lot of good guys out there. Maybe someday I'll actually QSO with some of you! :-)

From owner-qrp-l@netcom.com Wed Apr 12 03:06:15 1995
From: rarland@epix.net
Date: Tue, 11 Apr 1995 20:23:13 -0400 (EDT)
Subject: Re: What's Best CW Contest Speed?
Message-Id: <Pine.SUN.3.91.950411201311.16865C-100000@mango.epix.net>

Being a closet tester and a mediocre CW operator, I try to stay around the 18-20 WPM area. If a station is substantially slower (12-15 WPM) I will slow down to that speed for the exchange. However, 18-20 WPM is about "right" for most QRP contesting. During the CQ WW DX or WPX tests, the "real" contest ops run at about 35-40 WPM. It takes me a couple of whacks at the old porcupine to get the callsign. Since the exchange is relatively simple, once I have the call down, I push the hot key on the computer (if you AREN'T using a computer with CT or NA or some other contest logging program that includes a CW keyboard and hotkeys for transmitting the exchange and other mssgs you are REALLY doing yourself a disservice) and rip off my call at 35-40 WPM. As soon as the other op acks my call, I squirt off the exchange and push the "enter" key to log the QSO.

Now, before I get jumped on by all the QRP CW purists out there for using (heaven forbid) a computer for logging and sending CW, just let me state that IF I had to do this contest stuff using a keyer, I would sooner get a root canal or a 'roid operation! In contesting, anything that gets the other guy into your logbook is fair!

One final point. Contesting is an acquired skill. I was very fortunate in that I was a guest op at one of the biggest multi-multi contest stations in the UK (if not all of Europe) from 1979 to 1983. As a guest op at G4ANT, I learned from some of the best testers and DXers in the UK. It was lots of fun, lots of work and I have come to enjoy contesting very much. HOWEVER, contesting is not for everyone. If you are not comfortable with it, try some other aspect of the hobby. That's what makes QRP (and ham radio, for that matter) such a wonderful hobby.

72 rich K7YHA

From owner-qrp-1@netcom.com Wed Apr 12 14:56:43 1995

Date: Wed, 12 Apr 95 08:06:34 EDT

Message-Id: <9504121206.AA13798@clark.dgim.doc.ca>

From: jcumming@clark.dgim.doc.ca (Jim Cummings)

Subject: Re: What's Best CW Contest Speed?

>>To: ab253@rgfn.epcc.Edu

>>From: rgobrick@public.compuserve.com (Robert J. Gobrick)

>>Subject: Re: What's Best CW Contest Speed?

>>

>>Andrew,

>>

>>You're going to like this answer ;-) The best "contest speed" for the
>sender is the one that makes the most number of contacts. The best speed
>for the receiver is the one that makes the most number of contacts. That's
>what contesting is all about - using the best speed, best receiver, best
>transmitter, best power, best antenna, best liquid refreshment for the most
>number of contacts that YOU want to make.

>>
>>Now if that isn't a good answer... hi.
>>
>>Good luck in the next contest.
>>
>>72 Bob V01DRB/WA6ERB
>>
>>PS: I like 15-20wpm

Nope. Zero words per minute is the best speed.
GO DIGITAL

(I couldn't resist)

=====
Jim Cummings
eMail:jcumming@clark.dgim.doc.ca
packet:VE3XJ@VE3JF.#EONT.ON.CA.NOAM
73 and live better digitally
DON'T GET TOO EXCITED...
because remember, today is the first
day of the rest of your life.
=====

From owner-qrp-1@netcom.com Thu Apr 13 02:16:17 1995
From: rarland@epix.net
Date: Wed, 12 Apr 1995 20:26:43 -0400 (EDT)
Subject: Re: What's Best CW Contest Speed?
Message-Id: <Pine.SUN.3.91.950412202522.18094C-1000000@peach.epix.net>

On Wed, 12 Apr 1995, Monte Stark wrote:

> On Tue, 11 Apr 1995 rarland@epix.net wrote:
>
> >
> > One final point. Contesting is an acquired skill.
>
> > 72 rich K7YHA
> >
>
>
> Which skills should win a CW contest, CW or computer keyboarding?
>
> Just a thought.....
>

> 73's, Ron
>
Out scoring the competition, of course.

72 rich

From owner-qrp-l@netcom.com Wed Apr 12 17:13:08 1995
From: JDuffy@aol.com
Date: Wed, 12 Apr 1995 15:07:01 -0400
Message-Id: <950412150616_80829381@aol.com>
Subject: Re: Which DSP?

I just bought the Timewave DSP-9 last week and I love it. It is not the 9+ but it is very similar. I decided to try a DSP after talking to some guy in Oregon on the radio. He said it easily filtered out noise, static, interfering tones, etc. He also said it made a SSB signal almost FM like.

Well it is not FM like, but it works very well. It is especially impressive on CW.

I listened to the DSP-9 (2.0) and the DSP-9+. About the only difference is that the DSP+ better accomodates the digital modes which I really do not use anymore.

The guy in Oregon said that he too was interested in the MFJ unit but that HRO told him too many of the MFJs were being returned and that people really liked the Timewave units better.

All I can say is that I really love the DSP-9.

Regards,

Duffy - WB8NUT
Cincinnati, Ohio

From owner-qrp-l@netcom.com Wed Apr 12 15:21:19 1995
From: Per-Arne_Wahlgren@online.idg.se (Per-Arne Wahlgren)
Subject: Which Ten-Tec QRP?
Date: 12 Apr 1995 15:52:54 GMT
Message-Id: <2470899678.2279819@online.idg.se>

Hello fellow QRP:ers!

I have now been monitoring the qrp list for a couple of weeks and this is my first message. Hope I'll get everything right.
I would be happy to get some feedback on the QRP models from Ten-Tec before their last released Argo II. I am thinking of buying one from a friend who is

now using the Argo II. He has two earlier Ten-Tec qrp rigs. I am sorry I don't have their model number.

My question is, which of the qrp models from Ten-Tec is considered best, in terms of technical specs, radio performance, value for money etc. I would also be interested to know what are their weak spots... In other words, I would appreciate any input about TT QRP-rigs before Argo II.

Best Wishes from SM0STM op. Per

From owner-qrp-1@netcom.com Thu Apr 13 00:17:41 1995

From: rarland@epix.net

Date: Wed, 12 Apr 1995 20:38:17 -0400 (EDT)

Subject: Re: Which Ten-Tec QRP?

Message-Id: <Pine.SUN.3.91.950412202749.18094D-1000000@peach.epix.net>

On 12 Apr 1995, Per-Arne Wahlgren wrote:

> Hello fellow QRP:ers!

>

> I would be happy to get some feedback on the QRP models from Ten-Tec before
> their last released Argo II. I am thinking of buying one from a friend.

For my money, the "Best" of the T-T Argonaut series was the 515. It was the last of the analog Argos and featured an upgraded receiver, HFO mixing scheme, the 10 meter band was split out into 4 segments of 500KHz each (greatly improving tuning of stations on 10 meters).

Unfortunately, the 515 was only produced for a short time. According to W5QJM, only about 800 radios ever came off the production line. This means that they still hold their resale value quite well. I have seen them go for anywhere between \$400 to \$575, just for the rig and no accessories!

Probably the "Best Buy" from practicality would be a model 509. There were almost 5000 of these made and they are cheaper and much more readily available. With the addition of a 2.4 KHz 8-pole Crystal filter in the IF (available from T-T at about \$80) receiver performance is adequate. You will need an attenuator for 40 meter operation in Europe. The easiest way is to wire one into the rig and switch it in and out using the "receive antenna" switch on the rear panel. Model 509s go from \$175 to about \$275 depending upon condition and accessories.

There are several useful accessories for these rigs. First is the active AF filter (model 206 if memory serves me correctly) and the xtal

calibrator (model 208--ditto). S&S Engineering in Smithsburg, MD also makes a very useful digital dial for these rigs and the price is \$70 with out case (\$99 with case). It samples the VFO frequency and provides real digital readout of frequency on any model of the Argonaut.

Hope this helps.

By the way, I have owned 5 Argonaut 509s and 2 515s. They all work great and are fun rigs.

72/73 rich K7YHA

From owner-qrp-1@netcom.com Thu Apr 13 03:01:52 1995
Subject: Your end fed wire
From: brian.carling@acenet.com (Brian Carling)
Message-Id: <2a6.18575.500@acenet.com>
Date: Wed, 12 Apr 1995 06:51:00 -0500

>From: brian.carling@acenet.com

MESSAGE TO QRP-L:

(rohre@arlut.utexas.edu) writes:

RO>Brian,
RO>As an antenna nut, I have a couple of questions: do you tune the wire with
RO>built in tuner in your rig?

No, an MFJ-949D

RO>Have you ever had a chance to measure or estimate the feed impedance with the
RO>wire only 18 feet up?

No, I'm not equipped for that, but it would be helpful and fun!

RO>I had a 400 ft. wire up 60 ft. at one end in Malaysia, but could not tune it
RO>with a Pi net Heath DX-20. Now I think I know it was because of poor ground
RO>in
RO>the tropics, where the salts leach out of the soil with constant rain, and y
RO>get poor RF ground no matter what you do with an unbalanced antenna. But,
RO>having also had bad luck with a Marconi in desert like El Paso, also due to
RO>ground, and RF in shack, I am still open to learn more about them; and know
RO>many
RO>QRP folks use them, especially at low height. Thanks in advance for any
RO>knowledge you can share, 73, Stuart K5KVH

I do get some RF in the shack, but at QRP of course it is no problem.
With SSB at QRO it can get bad on some bands, and if I start tuning

at QRO with thing sset wrong it will drive the rig crazy at times!

I prefer a regular 1/2 wave dipole, but if you have to use a Marconi or Zepp etc., I would always use a tuner.

72 de AF4K
brian.carling@acenet.com

~ SLMR 2.1a ~ I've told you a million times not to exaggerate!